SOUZ S Z IM Source Paperwork Reduction Act of 1395 no persons are resourced

PTO/SB/08a (08-03)
Approved for use through 07/31/2008. OMB 0851-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
cond to a collection of information unless it contains a valid OMB control number.

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT Application Number 09/896,187

Filing Date June 29, 2001

First Named Inventor Eric J. Horvitz

Art Unit 2654

Examiner Name Thomas E. Shortledge

Complete if Known

(Use as many sheets as necessary)

heet 1 of 6 Attorney Docket Number MS164185.1/MSFTP215US

Examiner	Cite	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
nitials*	NO.	No.1 Number-Kind Code <sup>2 (d known)</sup>	MM-00-1111	Applicant or cited bocument	Figures Appear
73		US- 6,513,046	. 01-28-2003	Abbott, III et al.	
K		US- 6,747,675	06-08-2004	Abbott et al.	
		<sup>US-</sup> 6,801,223	10-05-2004	Abbott et al.	
		<sup>US-</sup> 6,842,877	01-11-2005	Robarts et al.	
		<sup>US-</sup> 6,466,232	10-15-2002	Newell et al.	
		<sup>US-</sup> 6,549,915	04-15-2003	Abbott, III et al.	
		<sup>US-</sup> 6,791,580	09-14-2004	Abbott et al.	
		US- 6,812,937	11-02-2004	Abbott et al.	
		US- 2001/0040591	11-15-2001	Abbott et al.	
		US- 2001/0043232	11-22-2001	Abbott et al.	•
		US- 2002/0044152	04-18-2002	Abbott, III et al.	
		US- 2002/0052963	05-02-2002	Abbott et al.	
		US- 2002/0054174	05-09-2002	Abbott et al.	
		US- 2002/0080155	06-27-2002	Abbott et al.	
		US- 2002/0083025	06-27-2002	Robarts et al.	
		US- 2002/0087525	07-04-2002	Abbott et al.	
V		US- 2003/0046401	03-06-2003	Abbott et al.	
rs	1	US- 2005/0034078	02-10-2005	Abbott et al.	

	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	τ°		
		-						
	1			• • • • • • • • • • • • • • • • • • •				
******************				• · · · · · · · · · · · · · · · · · · ·		Γ		
***************************************	<b></b>					Γ		
.4 50 5 500 500 514 52 50 50 50 50 50 50 50 50 50 50 50 50 50			***************************************					

Examiner		Date	1/1 2/20
Signature	1/ 2	Considered	1163106

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTC/SB/08a (08-03) Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

nder the Paperwork Reduction Act of 1995, as ersons are required to respond to a collection of information unless it contains a valid OMB control number.

6

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT
BY APPLICANT

Complete if Known

Application Number 09/896,187

Filing Date June 29, 2001

First Named Inventor Eric J. Horvitz

Art Unit 2654

Examiner Name Thomas E. Shortledge

Attorney Docket Number MS164185.1/MSFTP215US

(Use as many sheets as necessary)

Sheet

**U.S. PATENT DOCUMENTS** Publication Date Name of Patentee or Pages, Columns, Lines, Where Examiner Cite **Document Number** MM-DD-YYYY Applicant of Cited Document Relevant Passages or Relevant Initials' Figures Appear Number-Kind Code<sup>2 (f known)</sup> US- 2001/0040590 11-15-2001 Abbott et al. 13 US- 2001/0043231 11-22-2001 Abbott et al. US- 2002/0032689 Abbott, III et al. 03-14-2002 US- 2002/0052930 05-02-2002 Abbott et al. US- 2002/0054130 05-09-2002 Abbott, III et al. US- 2002/0078204 06-20-2002 Newell et al. US- 2002/0080156 06-27-2002 Abbott et al. US- 2002/0083158 06-27-2002 Abbott et al. US- 2002/0099817 07-25-2002 Abbott et al. US- 2003/0154476 08-14-2003 Abbott, III et al. US- 5,603,054 02-11-1997 Theimer et al. US- 5,555,376 09-10-1996 Theimer et al. US- 5,611,050 03-11-1997 Theimer et al. US- 5,544,321 08-06-1996 Theimer et al. US- 5,493,692 Theimer et al. 02-20-1996 US- 5,812,865 09-22-1998 Theimer et al. US-US-

	FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		T <sup>6</sup>	
		Country Code <sup>3</sup> 'Number <sup>4</sup> 'Kind Code <sup>5</sup> (if known)	<del></del>	<del> </del>	or Relevant Figures Appear	$\vdash$	
						-	
	<u>                                     </u>					L	
				***************************************	***************************************		
~			***************************************	***************************************			

Examiner		Date
Signature	// 3	Considered /// 3/06

\*EXAMINER\_Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as Indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** SUPPLEMENTAL 09/896,187 INFORMATION DISCLOSURE **Filing Date** June 29, 2001 STATEMENT BY APPLICANT First Named Inventor Eric J. Horvitz Art Unit 2654 (Use as many sheets as necessary) **Examiner Name** Thomas E. Shortledge Attorney Docket Number Sheet 6 MS164185.1/MSFTP215US 3 of

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
73		ANDY HARTER, et al., A Distributed Location System for the Active Office, IEEE Network, 1994, pp. 62-70.	
Â		GUANLING CHEN, et al., A Survey of Context-Aware Mobile Computing Research, Dartmouth Computer Science Technical Report, 2000, 16 pages.	
		WILLIAM NOAH SCHILT, A System Architecture for Context-Aware Mobile Computing, Columbia University, 1995, 153 pages.	
		MIKE SPREITZER, et al., Providing Location Information in a Ubiquitous Computing Environment, SIGOPS '93, 1993, pp.270-283.	
		MARVIN THEIMER, et al., Operating System Issues for PDAs, In Fourth Workshop on Workstation Operating Systems, 1993, 7 pages.	
		ROY WANT, Active Badges and Personal Interactive Computing Objects, IEEE Transactions on Consumer Electronics, 1992, 11 pages, Vol. 38 - No. 1.	
		BILL N. SCHILIT, et al., The ParcTab Mobile Computing System, IEEE WWOS-IV, 1993, 4 pages.	
1		BILL SCHILIT, et al., Context-Aware Computing Applications, In Proceedings of the Workshop on Mobile Computing Systems and Applications, December 1994. pp. 85-90.	
V		BILL N. SCHILIT, et al., Customizing Mobile Applications, Proceedings USENIX Symposium on Mobile and Location Independent Computing, August 1993, 9 pages.	
73		MIKE SPREITZER, et al., Architectural Considerations for Scalable, Secure, Mobile Computing with Location Information, In The 14th International Conference on Distributed Computing Systems, June 1994, pages 29-38.	

Examiner		Date	1/22/2
Signature	7/45	Considered	1165106

\*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

considered, include copy of this form with next communication to appricant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE to a collection of information unless it contains a valid OMB control number.

Substitut	te for form 1449/PT(	TRAI	DEMA		Complete if Known	
SUP	PLEMENT	AL		Application Number	09/896,187	
INFO	ORMATIO	N DIS	CLOSURE	Filing Date	June 29, 2001	
STA	TEMENT	BY A	PPLICANT	First Named Inventor	Eric J. Horvitz	
	///aa aa manu			Art Unit	2654	
	(Use as many sheets as necessary)			Examiner Name	Thomas E. Shortledge	
Sheet	1 4	7.7	6	Attorney Docket Number	MC16419E 1/MCETD31EUC	

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
4		MIKE SPREITZER et al., Scalable, Secure, Mobile Computing with Location Information, Communications of the ACM, July 1993, 1 page, Vol. 36 - No. 7.	
4		ROY WANT, et al., The Active Badge Location System, ACM Transactions on Information Systems, January 1992, pp. 91-102, Vol. 10 - No. 1.	
		MARK WEISER, Some Computer Science Issues in Ubiquitous Computing, Communications of the ACM, July 1993, pp. 75-84, Vol. 36 - No. 7.	
		M. BILLINGHURST, et al., An Evaluation of Wearable Information Spaces, Proceedings of the Virtual Reality Annual International Symposium, 1998, 8 pages.	
		BRADLEY J. RHODES, Remembrance Agent: A continuously running automated information retrieval system, The Proceedings of The First International Conference on The Practical Application Of Intelligent Agents and Multi Agent Technology, 1996, pp. 487-495.	
		ERIC HORVITZ, et al., In Pursuit of Effective Handsfree Decision Support: Coupling Bayesian Inference, Speech Understanding, and User Models, 1995, 8 pages.	
		BRADLEY J. RHODES, The Wearable Remembrance Agent: A System for Augmented Theory, The Proceedings of The First International Symposium on Wearable Computers, October 1997, pp. 123-128.	
		ERIC HORVITZ, et al., Attention-Sensitive Alerting in Computing Systems, Microsoft Research, August 1999.	
		BILL N. SCHILIT, et al., Disseminationg Active Map Information to Mobile Hosts, IEEE Network, 1994, pages 22-32, Vol. 8 - No. 5.	
B		MARK BILLINGHURST, et al., Wearable Devices: New Ways to Manage Information, IEEE Computer Society, January 1999, pp. 57-64.	

Examiner	Date	./ ,
Signature	Considered	1/23/06

\*EXAMINER: Initial it efference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Considered. Include copy of this form with next communication to applicants.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitut	e for form 1449/P10	ADEM			Complete if Known	
SUP	PLEMENTA	L		Application Number	09/896,187	
INFO	ORMATION	DIS	CLOSURE	Filing Date	June 29, 2001	
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	Eric J. Horvitz	
	(Use as many she	ate oe n	acassan/i	·Art Unit	2654	
	lose es many sue	1013 43 11	ocessary)	Examiner Name	Thomas E. Shortledge	
Sheet	5	of	6	Attorney Docket Number	MS164185.1/MSFTP215US	フ

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
75		THAD EUGENE STARNER, Wearable Computing and Contextual Awareness, Massachusetts Institute of Technology, June 1999, 248 pages.	
4		BRADLEY J. RHODES, The Wearable Remembrance Agent: A System for Augmented Memory, Personal Technologies Journal Special Issue on Wearable Computing, 1997, 12 pages.	
		Workshop on Wearable Computing Systems, August 19-21, 1996.	
		MARK BILLINGHURST, Research Directions in Wearable Computing, University of Washington, May, 1998, 48 pages.	
		Mark Weiser, The Computer for the 21st Century, Scientific American, September 1991, pp. 94-104, Vol. 265 - No. 3.	
		E. HORVITZ and T. LAU. Patterns of Search: Analyzing and Modeling Web Query Refinement. In Proc. of the Seventh International Conference on User Modeling, pp. 119-128, June 1999.	
		D. HECKERMAN and E. HORVITZ. Inferring Informational Goals from Free-text Queries: A Bayesian Approach. In Proc. of the Fourteenth Conference on Uncertainty in Artificial Intelligence, pp. 230-237, July 1998.	
		E. HORVITZ, et al. The Lumiere Project: Bayesian User Modeling for Inferring the Goals and Needs of Software Users. In Prof. of the Fourteenth Conference on Uncertainty in Artificial Intelligence, pp. 256-265, July 1998.	
1		ZUCKERMAN and E. HORVITZ. Toward Understanding WH-Questions: A Statistical Analysis.     Workshop on Machine Learning, Information Retrieval, and User Modeling, Workshop on Machine Learning, Information Retrieval, and User Modeling, July 2001. 10 pages.	
73		C. WALSH. "Bayesian Approach," Bayesian Modelling of Short Fatigue Crack Growth and Coalescence. Trinity College of Dublin Doctoral Thesis, October 1999. 4 pages.	

Examiner Signature Date Considered M3/06				
Signature Considered W3/06	Examiner	75	1	1/2/20
		16 /	Considered	110700

\*EXAMINER: Initial reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing its burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:

Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08B (08-03)

Approved for use through 07/31/2006, OMB 0551-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Und	er the Paperwolf Red	a TRA	1 n 195, no persons a	re required to respond to a collection of information unless it contains a valid OMB control number.  Complete if Known			
SUP	PLEMENTA	\L		Application Number	09/896,187		
INFORMATION DISCLOSURE				Filing Date	June 29, 2001		
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Eric J. Horvitz		
	(Use as many sh	49 <b>4</b> 0 00 0	^^**	Art Unit	2654		
	(USB 85 many Sn	act2 42 Li	ecessary)	Examiner Name	Thomas E. Shortledge		
Sheet	6	of	6	Attorney Docket Number	MS164185.1/MSFTP215US		

Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of	
nitials*	No. <sup>1</sup>	the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
B		D. NIEDERMAYER. An Introduction to Bayesian Networks and their Contemporary Applications.  December 1, 1998. Available at: http://www.niedermayer.ca/papers/bayesian/index.html  14 pages. Last viewed on July 18, 2005.	
B		C.E. RASMUSSEN. NEuroNet Roadmap: Future Prospects for Neural Networks. Last Updated on March 21, 2001. http://www.kcl.ac.uk/neuronet/about/roadmap/bayesian.html 4 pages.	
	,		
			<u> </u>

\*EXAMINER: Initial if pererence considered, whether or not originals in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.